ORDER NO. AD9404095C2

Service Manual

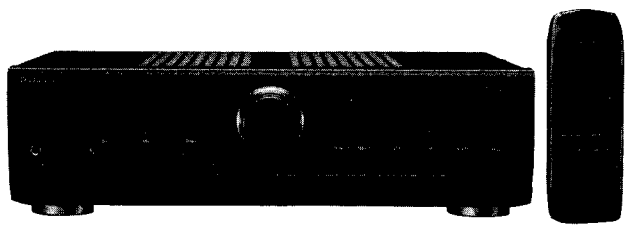
Amplifier

Stereo Integrated Amplifier

SU-A700MK2

Colour

(K) ..... Black Type



Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	
(EO)	Switzerland	

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output both channels driven	2 × 45 W (8 Ω)
1 kHz continuous power output both channels driven (THD: 1%)	2 × 55 W (8 Ω) 2 × 80 W (4 Ω)
63 Hz – 12.5 kHz continuous power output both channels driven (THD: 0.7%)	2 × 50 W (8 Ω) 2 × 70 W (4 Ω)
Total harmonic distortion rated power at 20 Hz – 20 kHz	0.01% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power	0.007% (8 Ω)
Residual hum and noise	1 mV
Damping factor	60 (8 Ω) 30 (4 Ω)
Headphones output level/impedance	540 mV/330 Ω
Load impedance	
A or B	4 – 16 Ω
A and B	8 – 16 Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS) MM	150 mV (150 mV, IHF '66)
S/N (rated power, 4Ω)	
PHONO MM	76 dB (78 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	91 dB (99 dB, IHF '66)
S/N at – 26 dB power (4 Ω)	
PHONO MM	68 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	70 dB
S/N at 50 mW power (4 Ω)	
PHONO MM	64 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	64 dB
Frequency response	
PHONO MM	RIAA standard curve ±1 dB (30 Hz – 15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	3 Hz – 80 kHz (+0, –3 dB) +0 dB, – 0.3 dB (20 Hz –20 kHz)
Tone controls	
BASS	50 Hz, +10 to –10 dB
TREBLE	20 kHz, +10 to –10 dB
Output voltage	
TAPE 1, TAPE 2/DCC REC OUT	150 mV
Channel balance (AUX 250 Hz – 6.3 kHz)	±1 dB
Channel separation (AUX 1 kHz)	50 dB
GENERAL	
Power consumption	200 W
Power supply	
For (E), (EG), and (EO) areas	50 Hz/60 Hz AC, 230 V
For (EB) area	50 Hz/60 Hz AC, 230 V – 240 V
Dimensions (W × H × D)	430 × 125 × 318 mm
Weight	6.7 kg

Notes:

1. Specifications are subject to change without notice.
   Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.
3. For areas except Europe
   The specification values given have been measured while using a 240 V power supply.

For (EB) area only

This apparatus was produced to BS 800.

Technics

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■ Before Repair

(1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V—240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50Hz	50~250 mA	40~240 mA

■ Protection circuitry

The protection circuitry may have operated if either of the following conditions is noticed:
* No sound is heard when the power is switched ON.
* Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

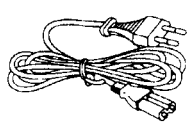
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

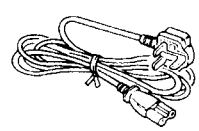
■ Accessories

- AC power supply cord 1

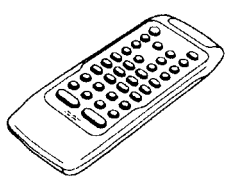
for (E), (EG) and (EO) areas : (RJA0019-2K)



for (EB) area : (VJA0733)



- Remote control transmitter (RAK-SU129WH) 1



- Batteries (UM-4, "AAA", R03) 2

Note: These are available on sales route.

■ Caution for AC Mains Lead (For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

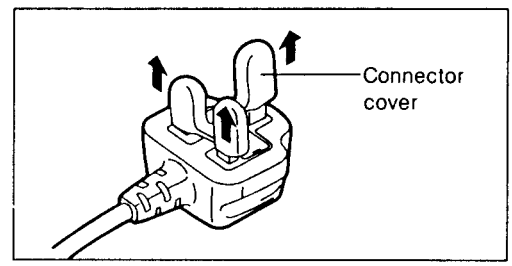
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚ .

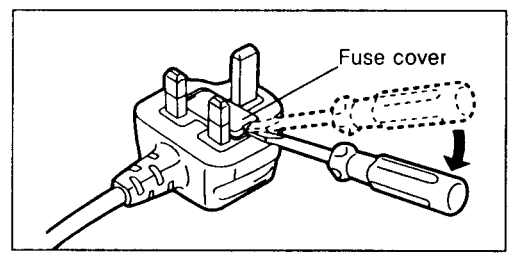
Before use

Remove the connector cover as follows.

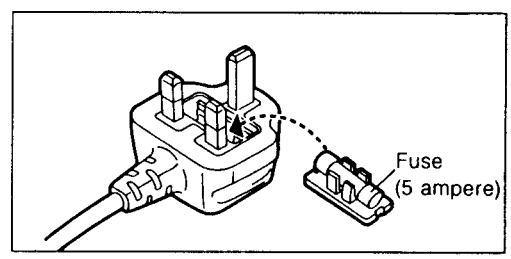


How to replace the fuse

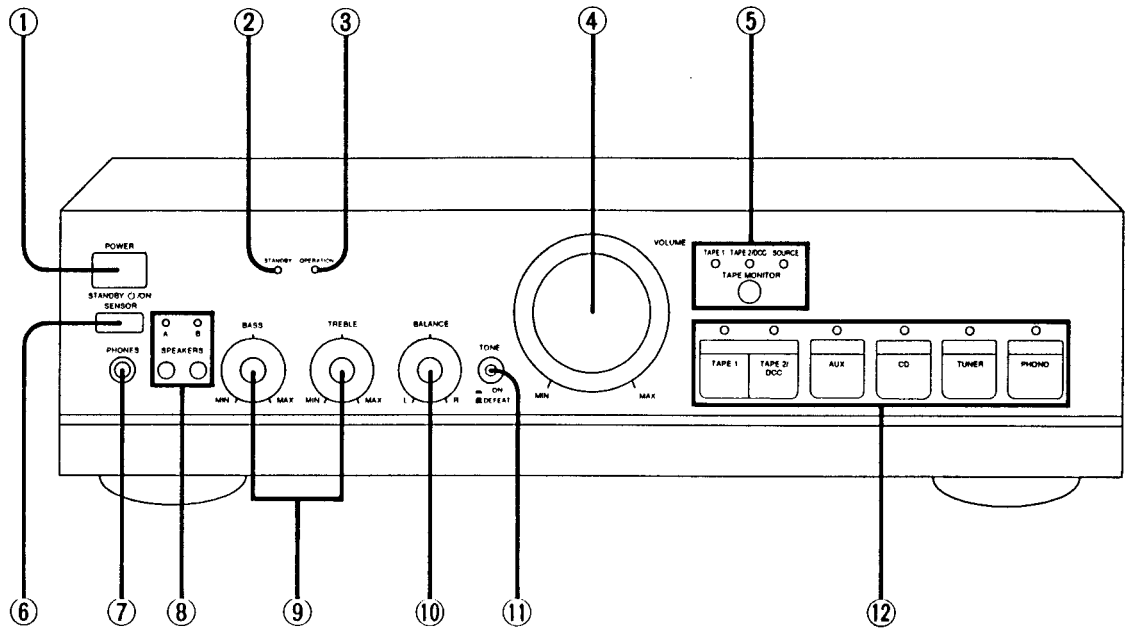
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ Front Panel Controls



No.	*Name*
①	**Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
②	**"STANDBY" indicator (STANDBY)** When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
③	**Operation indicator (OPERATION)** When the power is switched ON, this indicator illuminates after about 3 seconds when the unit is in the operating condition. If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output or a short-circuit of the positive (+) and negative (−) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.
④	**Volume control (VOLUME)**
⑤	**Tape-monitor button/indicators (TAPE MONITOR)**

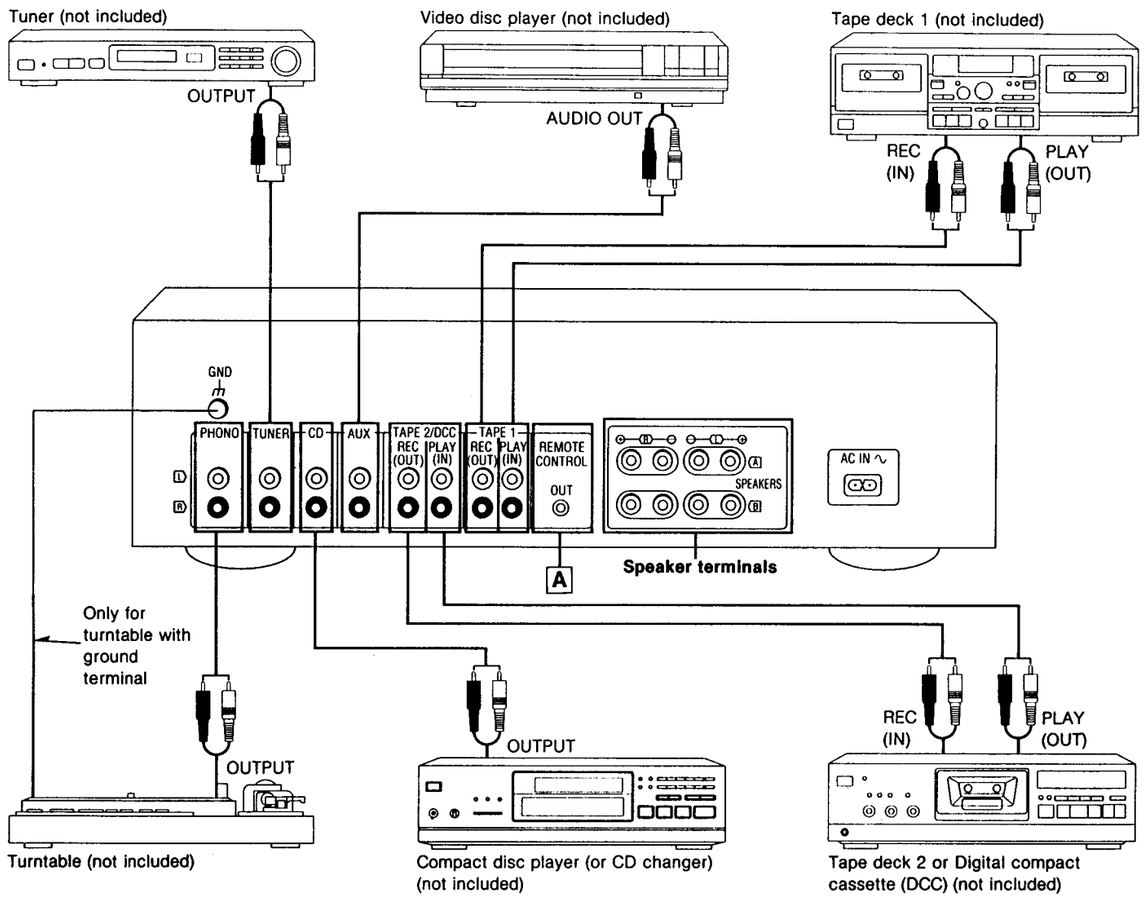
No.	*Name*
⑥	**Remote control signal receptor (SENSOR)** Receives the signals from the remote control.
⑦	**Headphones jack (PHONES)**
⑧	**Speaker select buttons/indicators (SPEAKERS)**
⑨	**Tone controls (BASS/TREBLE)**
⑩	**Balance control (BALANCE)**
⑪	**Tone control button (TONE)**
⑫	**Input select buttons/indicators**

■ Connections

To connect to each terminal

Make connections to each component in the system by using stereo connection cables (not included).

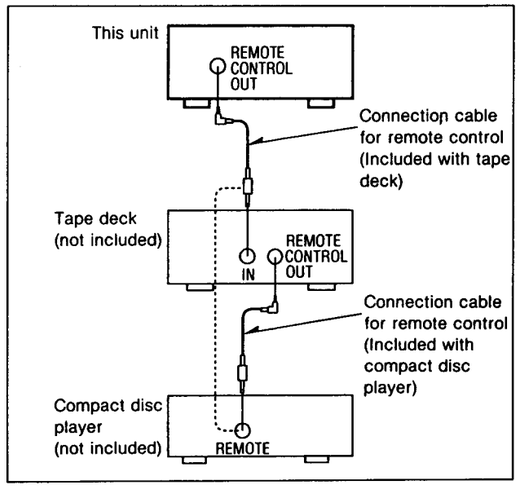
Stereo connection cable White (L) / Red (R)



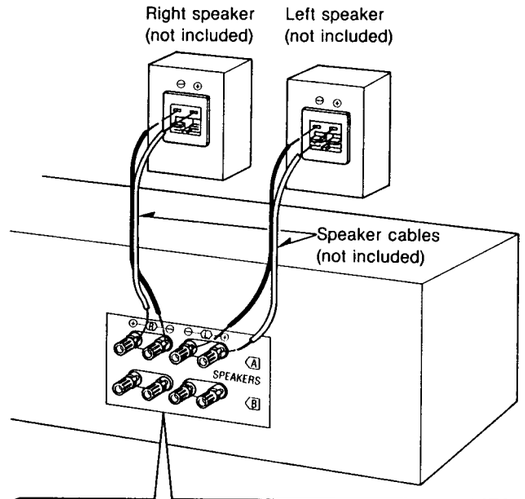
A "REMOTE CONTROL OUT" terminal

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown at the right.
If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).

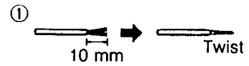
Note
For a tape deck and/or CD player (or CD changer) with a remote control sensor, this connection is not necessary.


This unit
REMOTE CONTROL OUT
Connection cable for remote control (Included with tape deck)
Tape deck (not included)
REMOTE CONTROL IN
OUT
Connection cable for remote control (Included with compact disc player)
Compact disc player (not included)
REMOTE

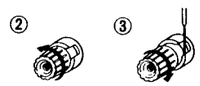
To connect the speakers



① Strip off the outer covering, and twist the center conductor.



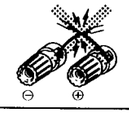
② Turn completely to the left.



③ Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

Note Be sure to only connect positive (+) cords to positive (+) terminals, and negative (−) cords to negative (−) terminals.

Note
To prevent damage to circuitry, never short-circuit the positive (+) and negative (−) speaker wires.



■ "B" terminals

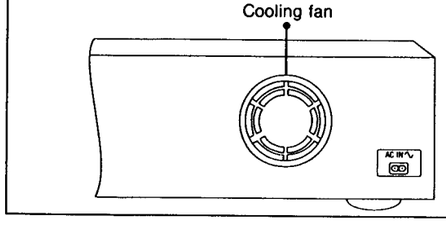
For connection to a second pair of speakers.

■ Speaker impedance

- When only the "A" or only the "B" terminals are used: 4 – 16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8 – 16 ohms

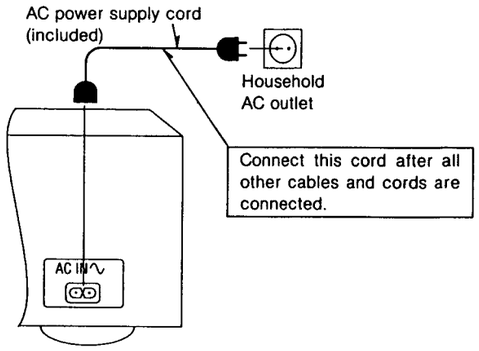
About the cooling fan

The cooling fan operates at high power output levels only. (There is no cooling fan for some countries.)

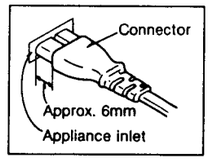


To connect the AC power supply cord

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTING THE AC POWER SUPPLY CORD.

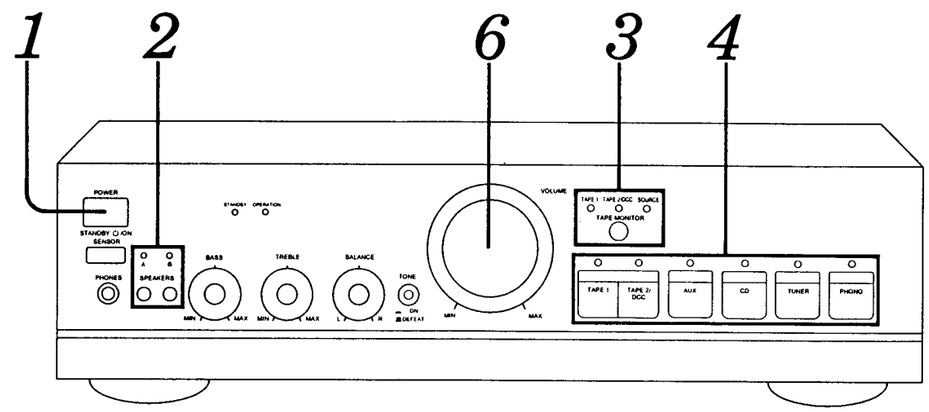

AC power supply cord (included)
Household AC outlet
Connect this cord after all other cables and cords are connected.
AC IN

Insertion of Connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



Note
The configuration of the AC power supply cord differs according to area.

■ Listening to Sound



Before operation, set VOLUME to the "MIN" position.

1 POWER

Press POWER to switch on the power.

2 A B SPEAKERS

Press A and/or B to select the speaker system(s) to be used.

A and B refer to the speaker terminals at the rear of the unit.

The corresponding indicator above will illuminate to indicate which speaker system is selected.

A: Sound can be heard from the speakers connected to the "A" terminals.

B: Sound can be heard from the speakers connected to the "B" terminals.

A and B: Sound can be heard simultaneously from the speakers connected to the "A" terminals and the "B" terminals.

off: No sound will be heard from the speakers. (Both indicators will turn off.)

3 TAPE 1 TAPE 2/DCC SOURCE TAPE MONITOR

Press TAPE MONITOR so that the "SOURCE" indicator illuminates.

Note

When a graphic equalizer connected to the "TAPE 1" or "TAPE 2/DCC" terminals is used, set the selector to the "TAPE 1" or "TAPE 2/DCC" position.

4 TAPE 1 TUNER PHONO

Press to select the desired source.

The corresponding indicator above will illuminate to indicate which button is selected.

TAPE 1: To listen to tape (TAPE 1).

TAPE 2/DCC: To listen to tape (TAPE 2) or digital compact cassette (DCC).

AUX: To listen to equipment connected to the "AUX" terminals.

CD: To listen to compact discs.

TUNER: To listen to radio broadcasts.

PHONO: To listen to phono discs.

5

Start the desired source.

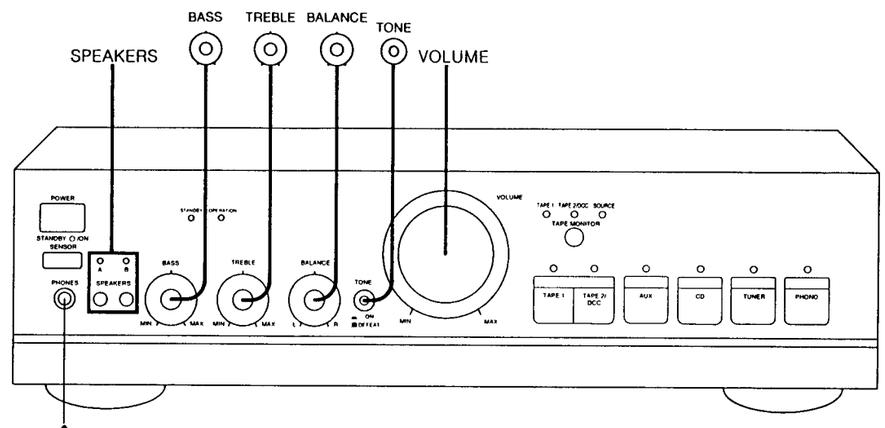
(Refer to the appropriate operating instructions for details.)

6 VOLUME MIN MAX

Turn VOLUME to adjust the volume level.

After listening is finished

Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.



Headphones (not included)
Plug type:
6.3 mm phone plug stereo type

To adjust the tone quality

TONE ON DEFEAT

Set TONE to the "ON" position.

If set to the "DEFEAT" position, tone controls have no effect.

BASS MIN MAX

Turn BASS to adjust the low-frequency sound.

TREBLE MIN MAX

Turn TREBLE to adjust the high-frequency sound.

To adjust the sound balance

BALANCE L R

Turn BALANCE to adjust the left/right sound balance.

When listening through headphones

Use VOLUME to reduce the volume level, and connect the headphones.

If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

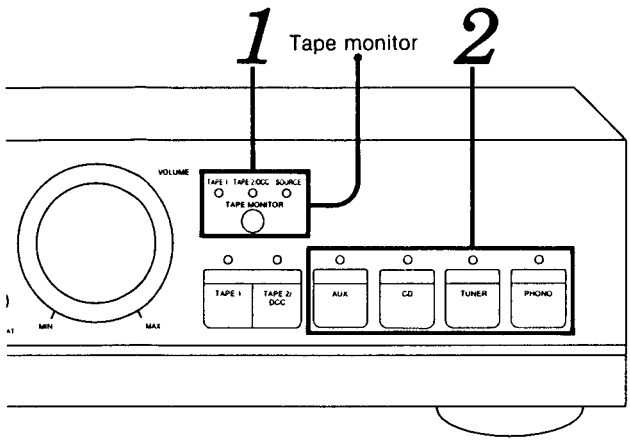
Note

Avoid listening for prolonged periods of time to prevent hearing damage.

■ Recording

To record from compact discs, etc.

It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.



Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).
See the tape deck's or DCC's operating instructions for details.

1 **Press TAPE MONITOR so that the "SOURCE" indicator illuminates.**

2 **Select the program source to be recorded.**

AUX: To record from equipment connected to the "AUX" terminals.
CD: To record from compact discs.
TUNER: To record from radio broadcasts.
PHONO: To record from phono discs.

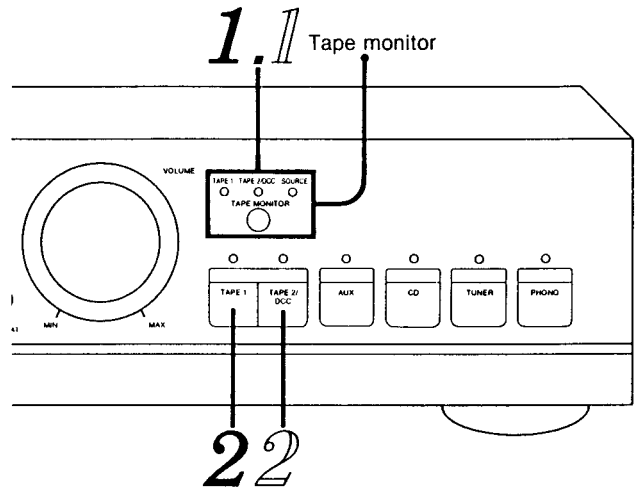
3 **Begin recording.**

Follow your tape deck's or DCC's operating instructions.

4 **Begin the source to be recorded.**

Tape-to-tape recording

It is possible to record from tape deck 1 (the cassette tape deck which is connected to the "TAPE 1" terminals) to tape deck 2 (the cassette tape deck or DCC deck which is connected to the "TAPE 2/DCC" terminals) and vice versa.



Preparation

- Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).
  See the tape deck's or DCC's operating instructions for details.
- Load tapes which have been advanced to the end of the leader tape into both decks.

To record from tape deck 2 to 1

1 **Press TAPE MONITOR so that the "SOURCE" indicator illuminates.**

2 **Press "TAPE 2/DCC".**

3 **Begin tape deck 1 for recording and tape deck 2 for playback.**

To record from tape deck 1 to 2

1 **Press TAPE MONITOR so that the "SOURCE" indicator illuminates.**

2 **Press "TAPE 1".**

3 **Begin tape deck 2 for recording and tape deck 1 for playback.**

To check the sound recorded while recording is being made

If a cassette tape deck with 3 heads is connected to the "TAPE 1" or "TAPE 2/DCC" terminals, it is possible to check the sound being recorded onto the tape.

Press TAPE MONITOR to select the deck (tape deck 1 or 2) and set the monitor switch on the tape deck to "TAPE".

TAPE 1: when recording on tape deck 1
TAPE 2/DCC: when recording on tape deck 2

■ Operation Check and Main Component Replacement Procedures

NOTE

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**
4. **Illustrated screws are equivalent to actual size.**
5. **[ ] indicates parts No.**

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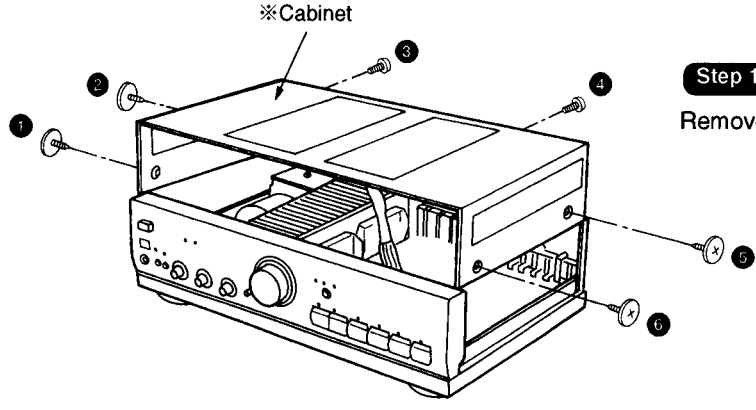
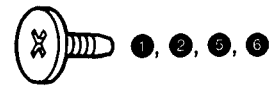
3. Replacement for power IC. ..... 13.

1. Common disassembly procedures (Follow this procedure prior to other disassembly.)

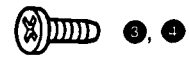


Step 1

Remove the 6 screws.



[RHD30035-K1] (Black)

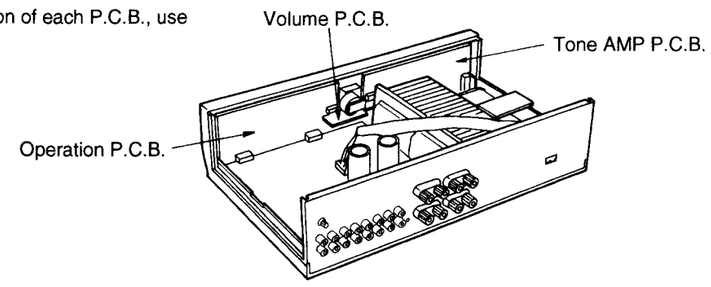


[XTBS3+8JFZ1] (Black)

※ (E, EG) : RKM0114A-K
※ (EB, EO): RKM0114B-K

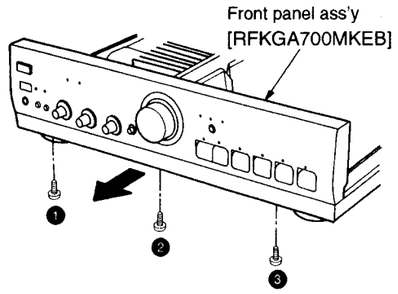
2. Checking for the Volume P.C.B. / Operation P.C.B. /Tone AMP P.C.B.

To check the operation of each P.C.B., use item 1 of page 10.



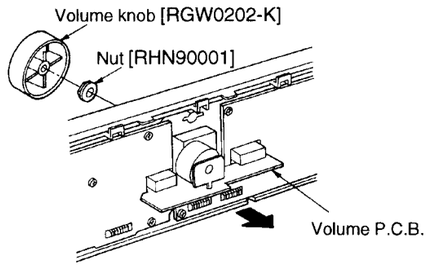
To remove each P.C.B.

Step 1
Remove the 3 screws.

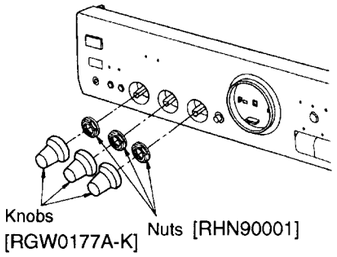


Step 2 Remove the knob and nut.

Step 3 Remove the volume P.C.B.

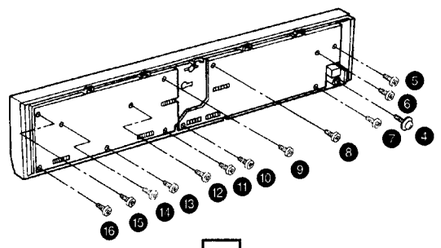


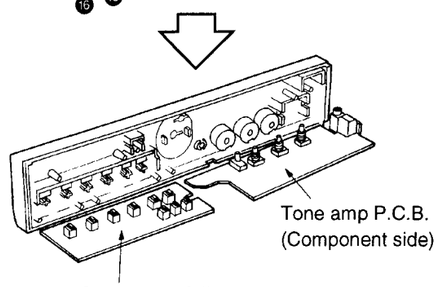
Step 4 Remove the knobs and nuts.



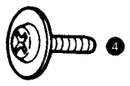
※Pull out the knobs with using adhesive tape when the knob is hardly removed.

Step 5 Remove the 13 screws.

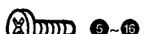




[XTBS3+8JFZ1] (Black)



[XTWS3+10T]

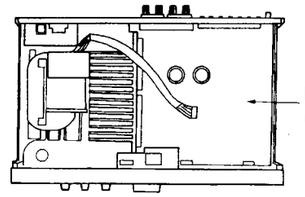


[XTBS26+8J]

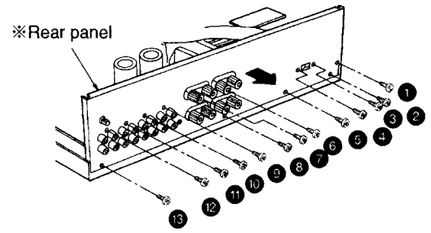
3. Checking for the Main P.C.B.

※ (E, EG) : RGR0170A-CB
※ (EO) : RGR0170H-BB
※ (EB) : RGR0170B-BB

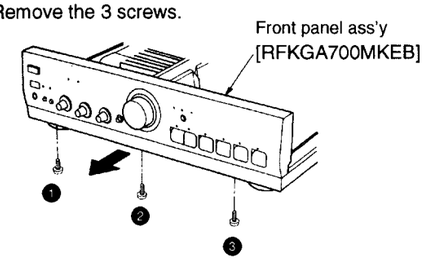
Step 1 Follow the disassembly procedure described in item 1 on page 10.



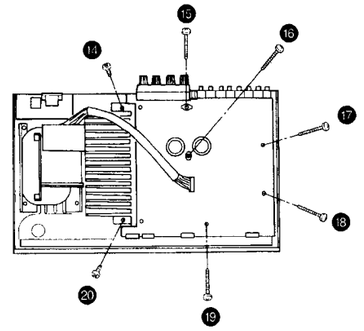
Step 2 Remove the 13 screws.



Step 3
Remove the 3 screws.

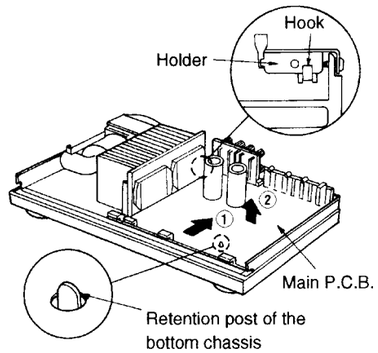


Step 4 Remove the 7 screws.

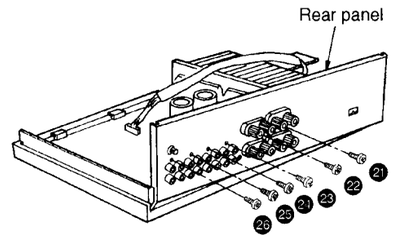


Step 5 Lift the main P.C.B. off the retention post on the bottom chassis.

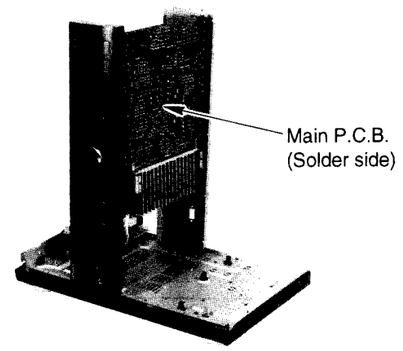
Step 6 Remove the main P.C.B. in the direction of arrow ①, ②.

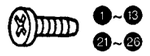


Step 7 Install the rear panel temporarily on the main P.C.B. again.

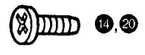


Step 8 Connect the front panel ass'y of the P.C.B. connectors to the main P.C.B. and set it as the illustration below.





[XTBS3+8JFZ1] (Black)



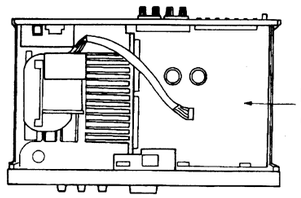
[XTB3+8JFZ] (Black)

[XTB3+20JFZ] (Black)

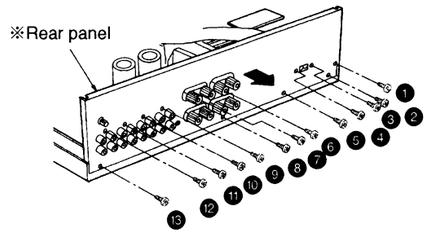
3. Checking for the Main P.C.B.

※ (E, EG) : RGR0170A-CB
※ (EO) : RGR0170H-BB
※ (EB) : RGR0170B-BB

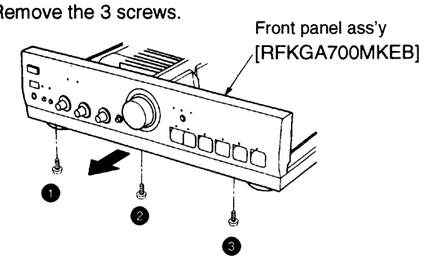
Step 1 Follow the disassembly procedure described in item 1 on page 10.



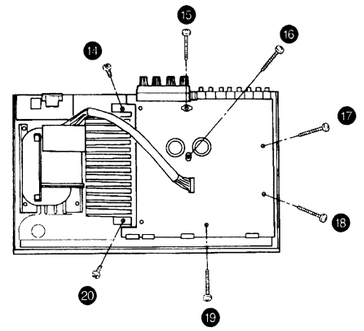
Step 2 Remove the 13 screws.



Step 3
Remove the 3 screws.

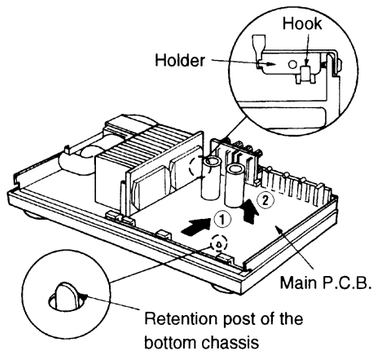


Step 4 Remove the 7 screws.

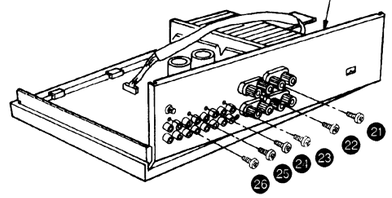


Step 5 Lift the main P.C.B. off the retention post on the bottom chassis.

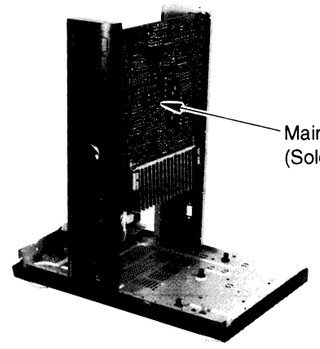
Step 6 Remove the main P.C.B. in the direction of arrow ①, ②.



Step 7 Install the rear panel temporarily on the main P.C.B. again.



Step 8 Connect the front panel ass'y of the P.C.B. connectors to the main P.C.B. and set it as the illustration below.



[XTBS3+8JFZ1] (Black)

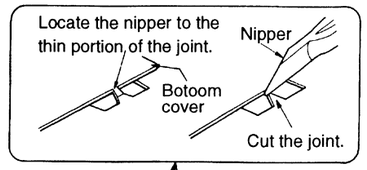
[XTB3+8JFZ] (Black)

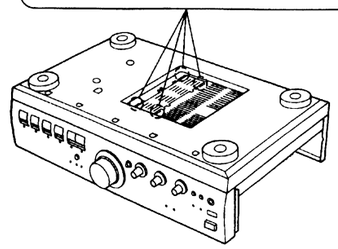
[XTB3+20JFZ] (Black)

4. Replacement for power IC.

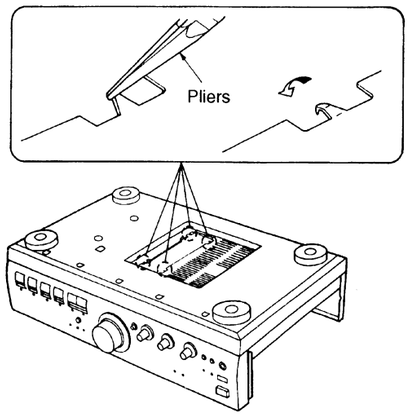
Step 1 Follow the disassembly procedure described in item 1 on page 10.

Step 2 Cut the joints as shown below. (4 portions)

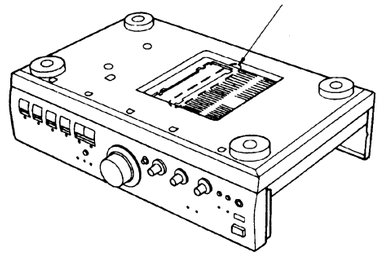




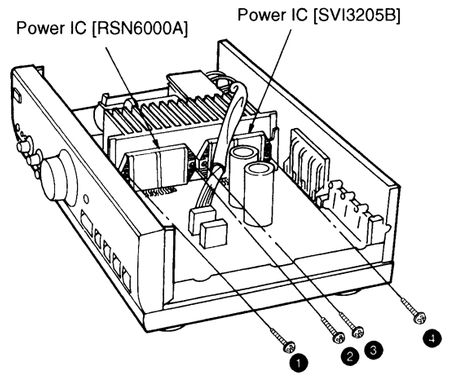
Step 3 Fold the joints. (4 portions)



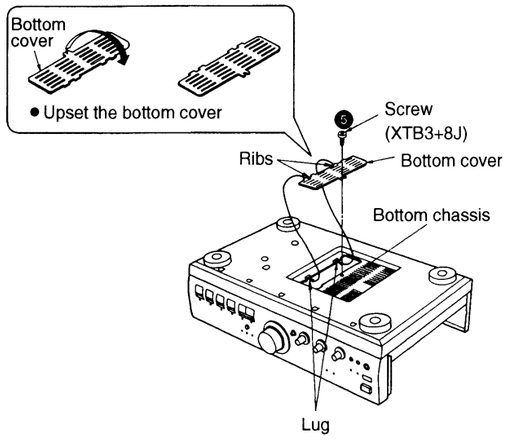
Step 4 Remove the solder of power IC.



Step 5 Remove the 4 screws.



Step 6 Fix the bottom cover with screw.



CAUTION

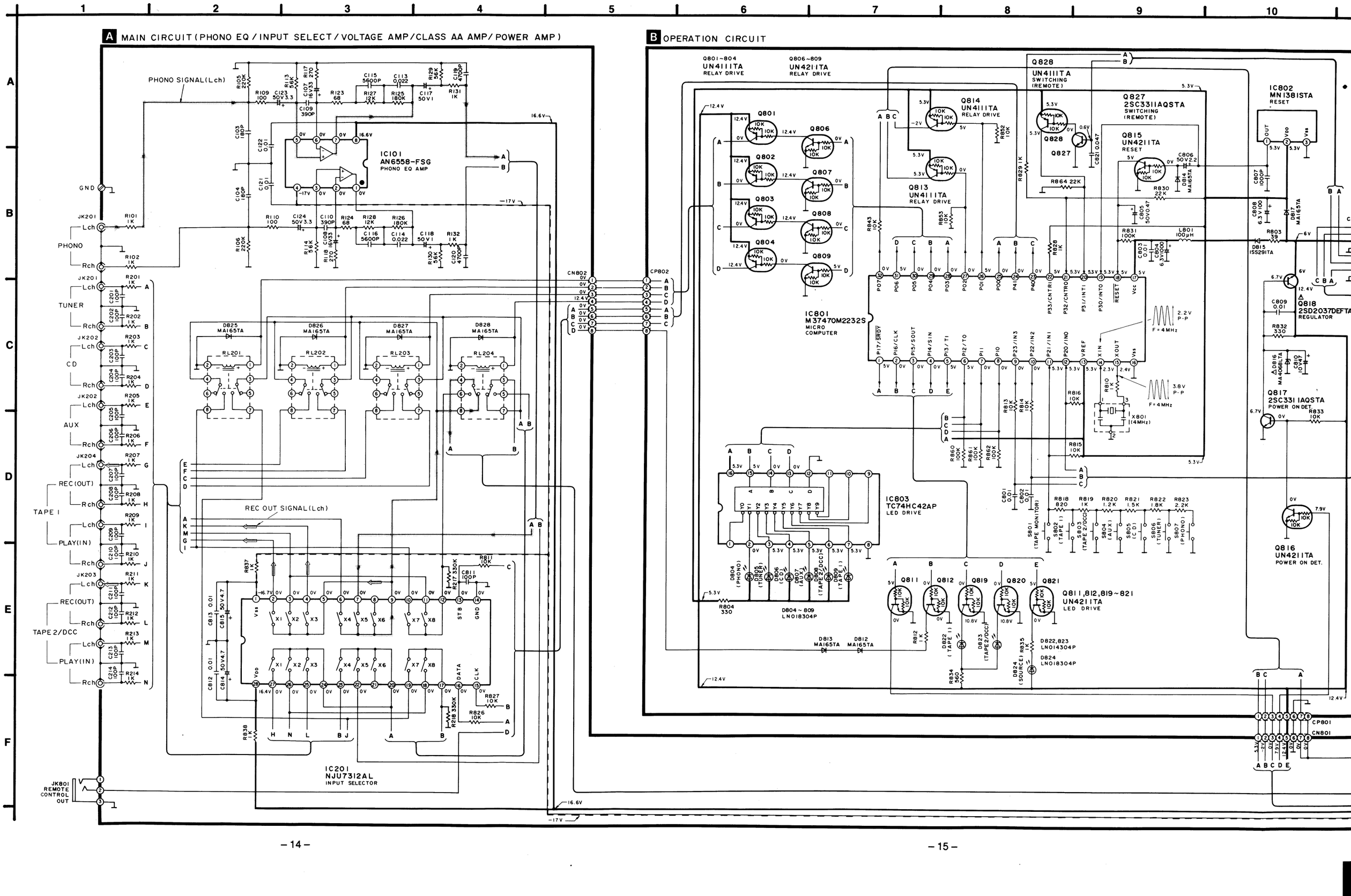
- After replacing the power IC, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC (Radiation of power IC).
- Tighten enough the screws (❶~❹) after replacing the power IC.
  Otherwise, the heat radiation works little.

[XTW3+15T]

[XTB3+8J] (Black)

SU-A700MK2 SU-A700M

■ Schematic Diagram • Main/Operation/Volume/Tone Amp. Circuit (Parts list on page 28~34.)



list on page 28~34.)

5 6 7 8 9 10 11 12 13 14

MP)

B OPERATION CIRCUIT

Q801~804 UN4111TA RELAY DRIVE

Q806~809 UN4211TA RELAY DRIVE

Q828 UN4111TA SWITCHING (REMOTE)

Q827 2SC3311AQSTA SWITCHING (REMOTE)

Q814 UN4111TA RELAY DRIVE

Q813 UN4111TA RELAY DRIVE

Q815 UN4211TA RESET

IC802 MN1381STA RESET

IC801 M37470M2232S MICRO COMPUTER

IC803 TC74HC42AP LED DRIVE

Q811,812,819~821 UN4211TA LED DRIVE

D804~809 LN018304P

Q816 UN4211TA POWER ON DET.

Q817 2SC3311AQSTA POWER ON DET.

Q818 2SD2037DEFTA REGULATOR

C VOLUME CIRCUIT

IC251 BA6218 MOTOR DRIVE

D TONE AMP CIRCUIT

IC401 AN7062N VOLTAGE AMP

Q824,825 2SK3010RSTA MUTING

Q826 2SA933ORSTA MUTING CONT.

Q401 2SA1123RSTTA PRE DRIVE

Q402 2SA1123RSTTA PRE DRIVE

● Power Switch/Headphones Jack/Power Supply/Power Transformer Circuit

(Parts list on page 28~34.)

16 17 18 19 20 21 22 23 24 25 26

E HEADPH

IC301 UPC4570C TONE AMP

S204 (TONE)

S1 (POWER)

Q610 2SC3311AQSTA LED DRIVE

Q611 UN42IFTA LED DRIVE

Q823 UN4111TA LED DRIVE

Q822 UN4111TA LED DRIVE

Q503 2SA992EFPTA RELAY DRIVE

IC502 RSN6000A V-AMP(MOS)

Q453 2SC3311AQSTA CLASS AA AMP

Q455 2SA1309AQSTA CLASS AA AMP

Q451 2SC2631RSTTA CURRENT STABILIZER

Q454 2SC3311AQSTA CLASS AA AMP

Q456 2SA1309AQSTA CLASS AA AMP

Q452 2SC2631RSTTA CURRENT STABILIZER

△IC501 SV13205B POWER AMP

Q502 2SA992EFPTA RELAY DRIVE

Q501 2SA992EFPTA RELAY DRIVE

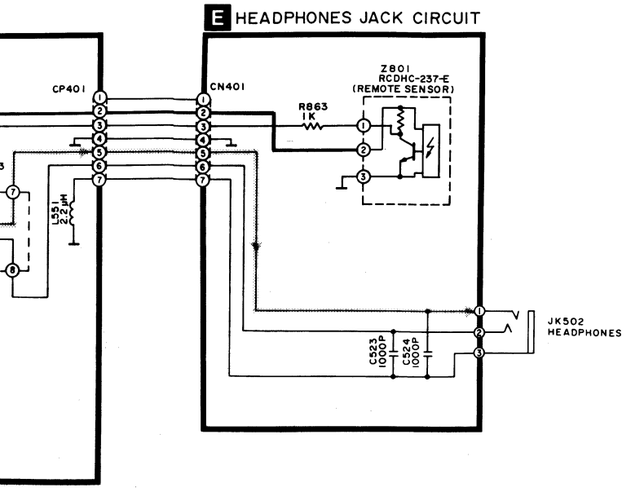
Q701 2SB621AQRSTA RELAY DRIVE

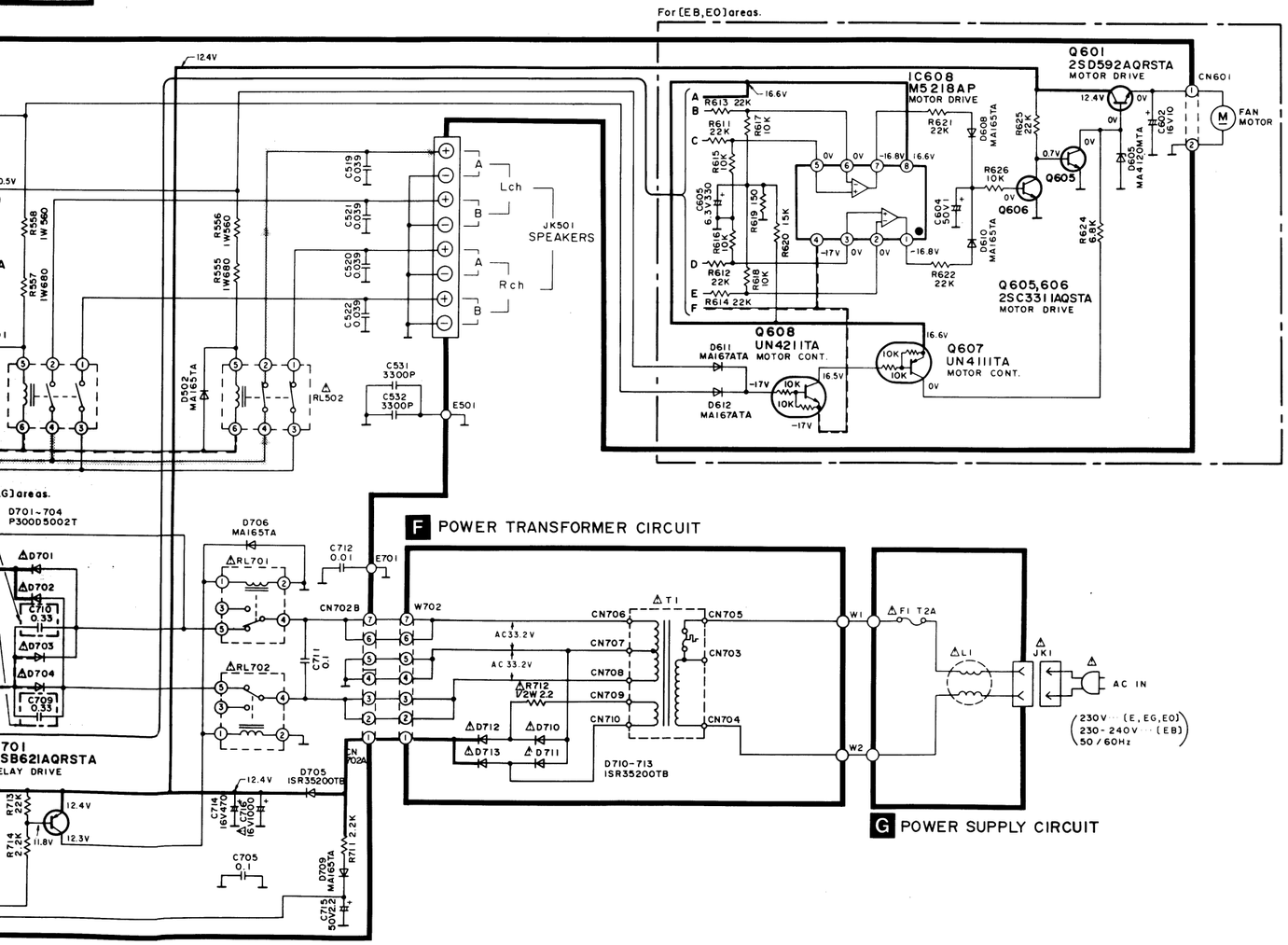
For [E,EG] areas.

D701~704 P300D5002T

25 26 27 28 29 30 31 32 33 34 35

E HEADPHONES JACK CIRCUIT





F POWER TRANSFORMER CIRCUIT

G POWER SUPPLY CIRCUIT

Notes:

- **S1** : Power Standby ⏻ /ON switch.
- **S204**: TONE control switch (ON/DEFEAT).
- **S801**: TAPE MONITOR switch.
- **S802**: Input selector switch (TAPE 1).
- **S803**: Input selector switch (TAPE 2/DCC).
- **S804**: Input selector switch (AUX).
- **S805**: Input selector switch (CD).
- **S806**: Input selector switch (TUNER).
- **S807**: Input selector switch (PHONO).
- **S810**: Speaker select switch (SPEAKER A).
- **S811**: Speaker select switch (SPEAKER B).

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester. No mark: Power ON
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- **This schematic diagram may be modified at any time with the development of new technology.**

- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.

- **Voltage and signal line**
  ——— : Positive voltage line.
  - - - : Negative voltage line.
  ▒▒▒ : Phono signal line.
  ▨▨▨ : Recording output signal line.

- The supply part number is described alone in the replacement parts list.

Part No.	Production Part No.	Supply Part No.
Z801	RCDHC-237-E	RCDHC-237

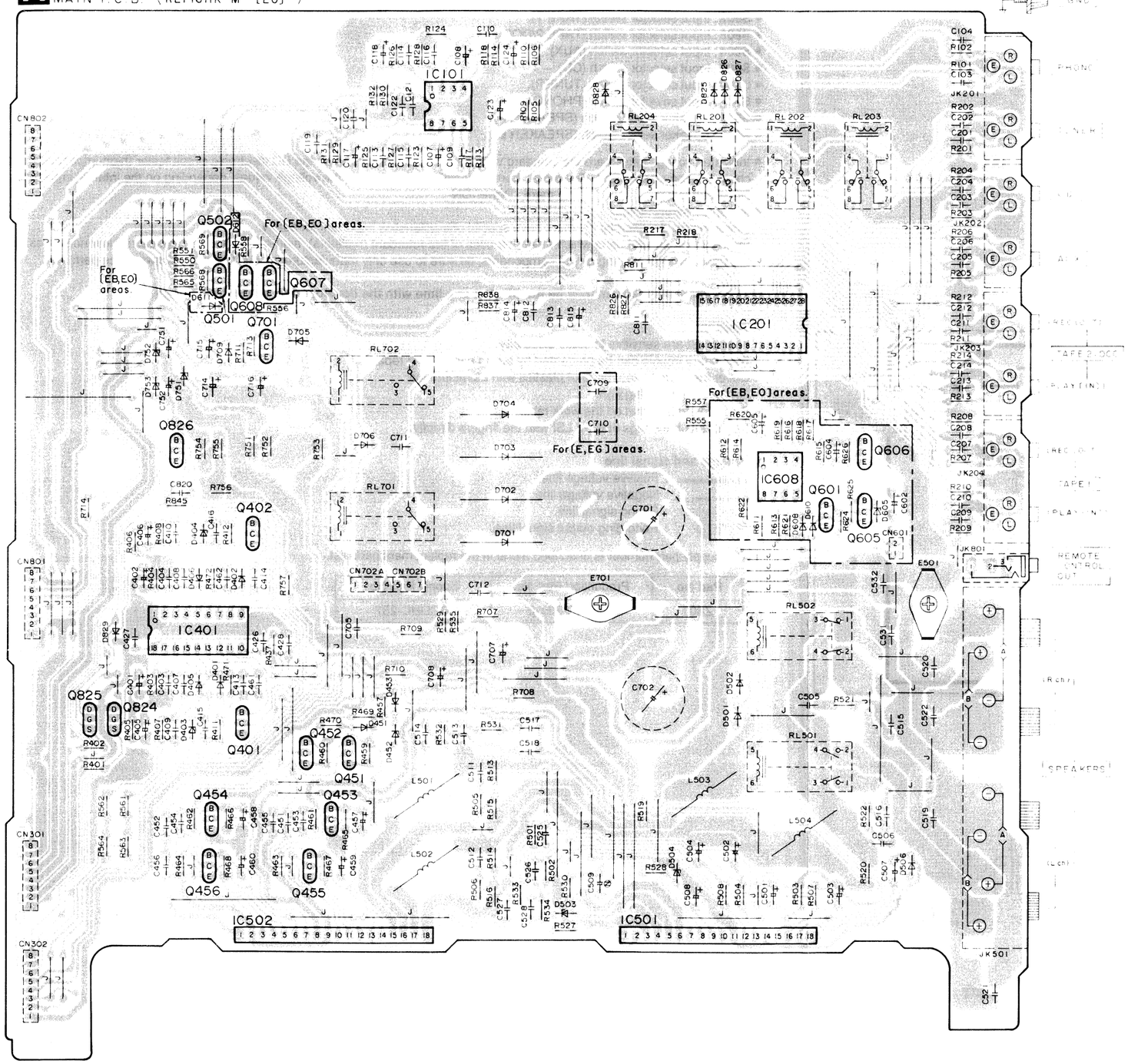
■ Printed Circuit Board Diagram

1 2 3 4 5 6 7 8 9 10

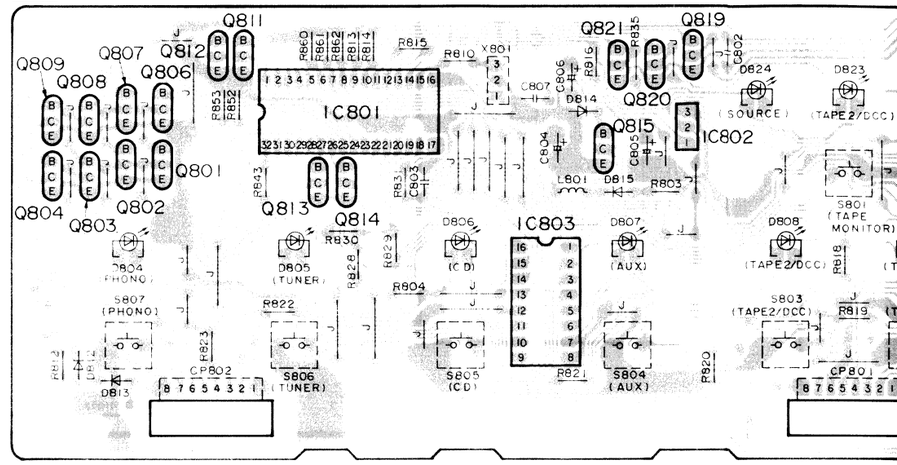
A B C D E F

• This circuit board diagram may be modified at any time with the development of new technology.

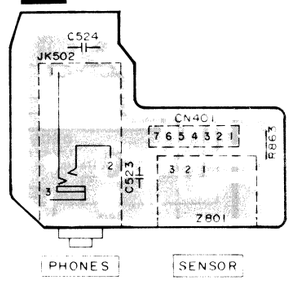
A MAIN P.C.B. (REPI611H-M ... [E,EG] / REPI611J-M ... [EB] / REPI611K-M ... [EO])



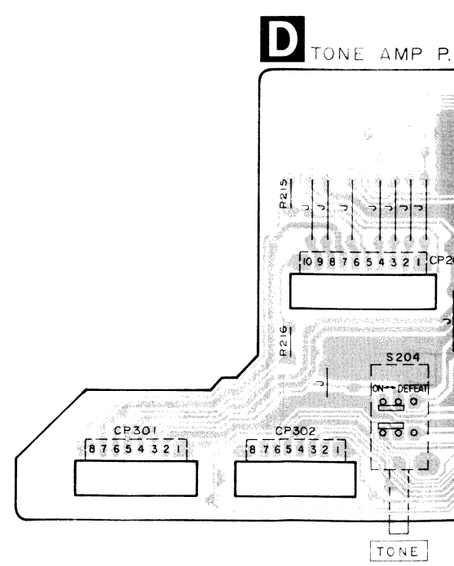
B OPERATION P.C.B. (REPI869A-S)



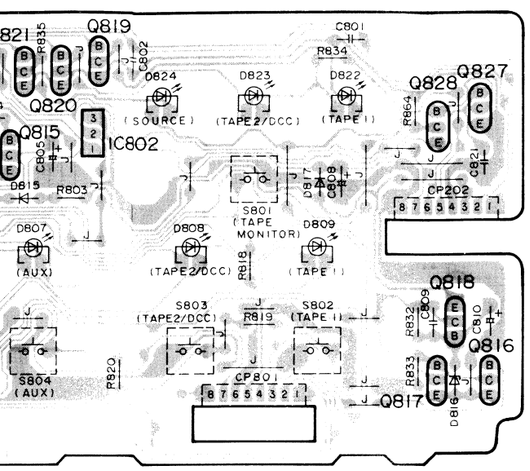
E HEADPHONES JACK P.C.B. (REPI869A-S)



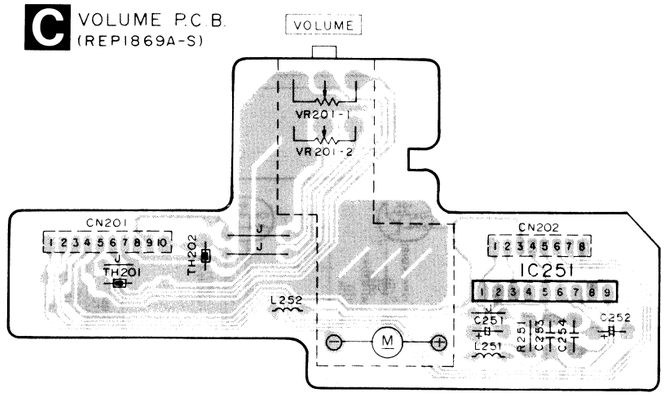
D TONE AMP P.



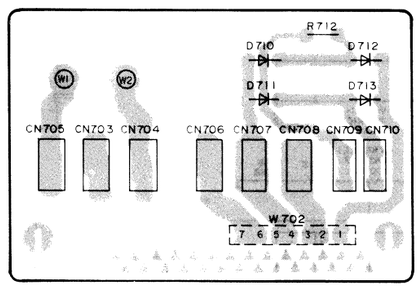
10 11 12 13 14 15 16 17 18 19



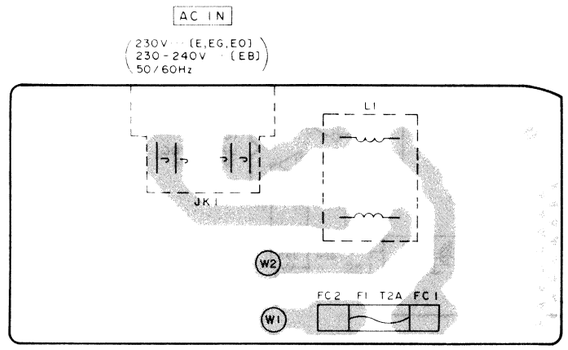
C VOLUME P.C.B. (REP1869A-S)



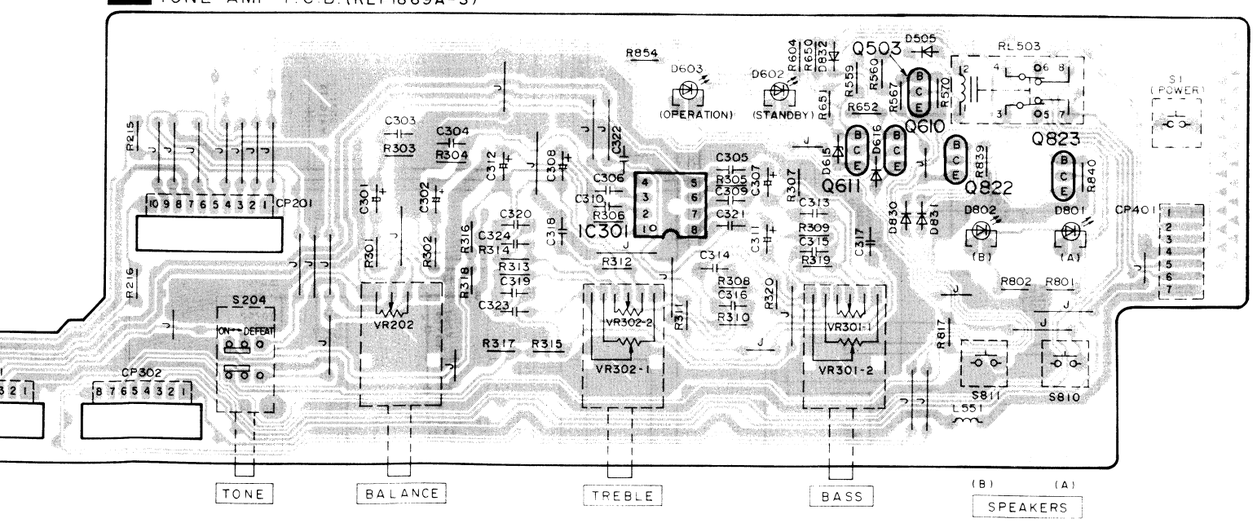
F POWER TRANSFORMER P.C.B. (PEP1872A-P)



G POWER SUPPLY P.C.B. (REP1872A-P)



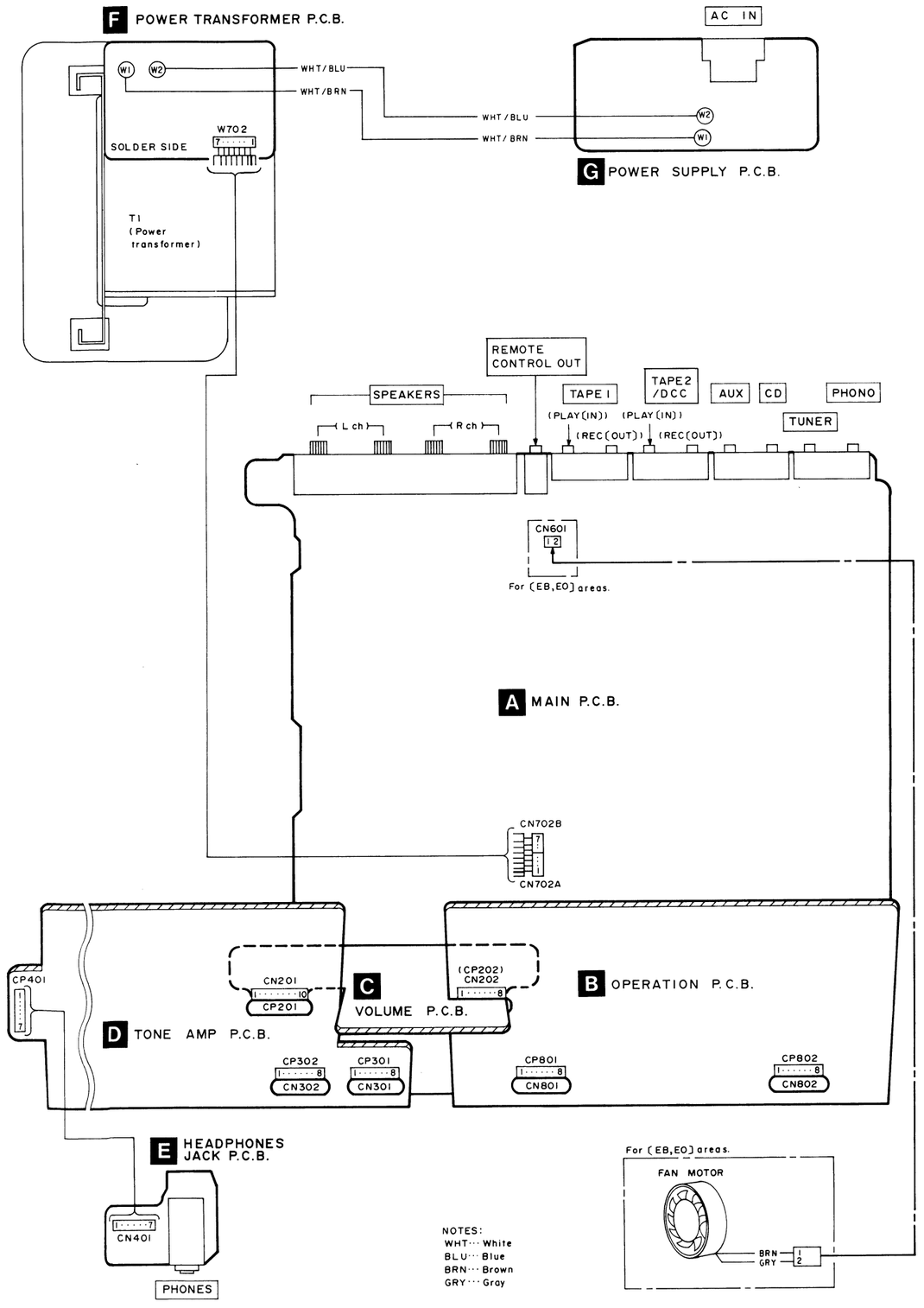
D TONE AMP P.C.B. (REP1869A-S)



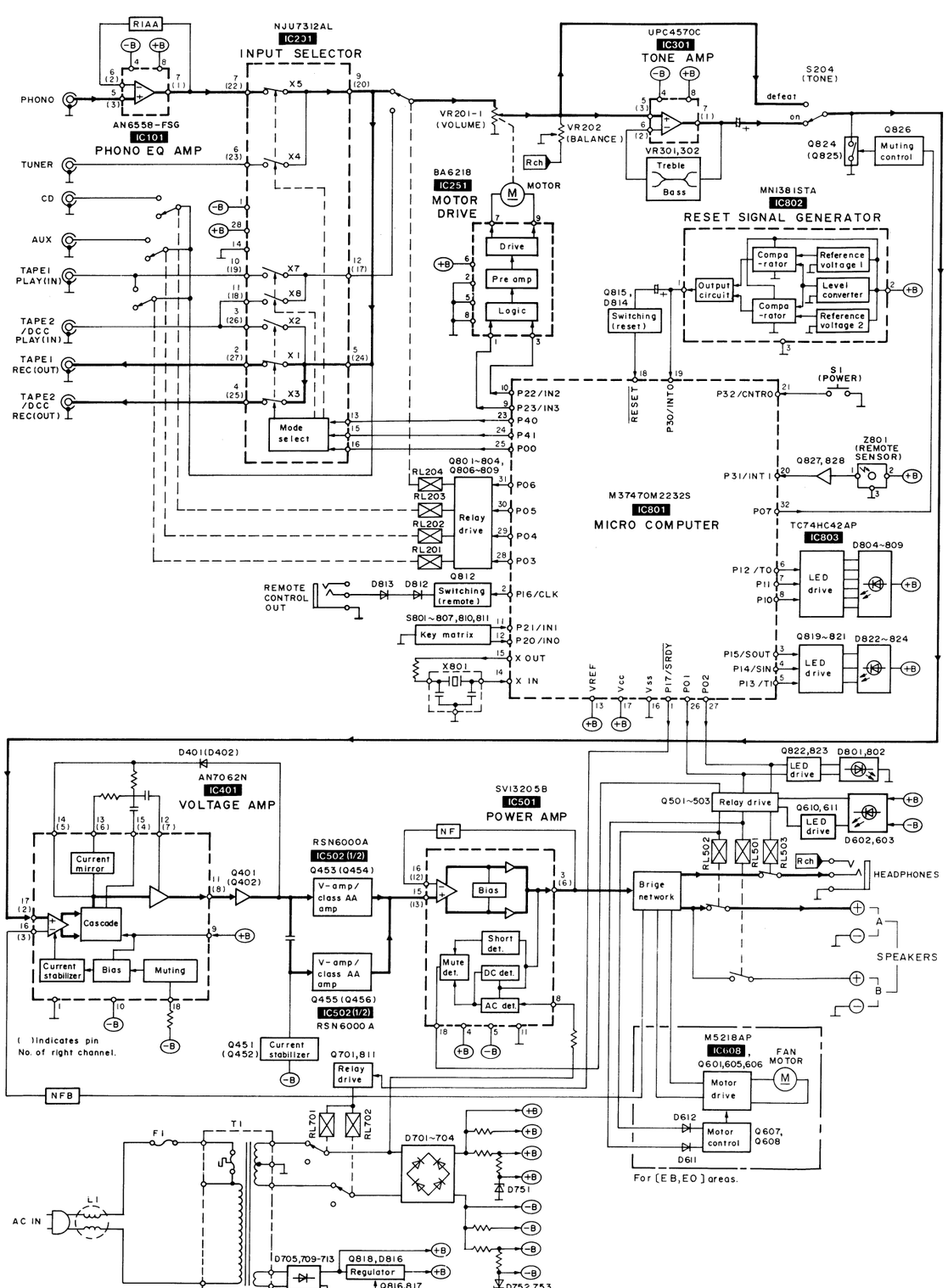
- Terminal guide of IC's, transistors and diodes

M5218AP	AN6558-FSG	UPC4570C 8 Pin AN7062N 18Pin NJU7312AL 28Pin	TC74HC42AP 16Pin M37470M2232S 32Pin
BA6218	RSN6000A SVI3205B	MN1381STA	2SA933QRSTA 2SA992EFPTA 2SA1123RSTTA 2SB621A-R 2SC2631RSTTA 2SD592ANCQ
2SK301QRS	2SA1309A-R 2SC3311A-Q UN421FTA UN4111 UN4211	2SD2037DEFTA	MA165 MA167 MA29WA MA700 1SS291TA 1SR35200TB
P300D5002T	MA4036MTA MA4056MTA MA4068L MA4082MTA	MA4160M MA4120 MA4270	LN014304P LN018304P

■ Wiring Connection Diagram



■ Block Diagram



■ Function of IC Terminals

IC801 (M37470M2232S)

Pin No.	Terminal Name	I/O	Function
1	P17/SRDY	O	Relay (Power SW) drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	LED (TAPE 1) drive signal output.
4	P14/SIN	O	LED (TAPE 2) drive signal output.
5	P13/TI	O	LED (SOURCE) drive signal output.
6	P12/TO	O	Input select LED drive signal output.
7	P11	O	
8	P10	O	
9	P23/IN3	O	Motor (volume control) drive signal output.
10	P22/IN2		
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Switch (POWER, SPEAKER A, SPEAKER B) signal input.
13	VREF	I	Reference voltage input.
14	XIN	I	Oscillator signal I/O terminal. (4 MHz)
15	XOUT	O	
16	VSS	—	GND terminal.
17	VCC	I	Power supply (+5V).
18	RESET	I	System reset signal input.
19	P30/INTO	I	Back-up detect signal input.
20	P31/INTI	I	Remote control receive signal input.
21	P32/CNRO	I	Power SW signal input.
22	P33/CNRI	—	No used. Connected to GND.
23	P40	O	Strobe signal input for Input Selector IC (IC201).
24	P41	O	Clock signal input for Input Selector IC (IC201).
25	P00	O	Data signal input for Input Selector IC (IC201).
26	P01	O	SPEAKER A select signal output.
27	P02		SPEAKER B select signal output.
28	P03	O	Selector Relay drive signal output.
29	P04		
30	P05		
31	P06		
32	P07	O	Audio muting control signal output.

■ Replacement Parts List

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y: Supply period for three years from termination of production.
*The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN6558-FSG	I. C, PHONO EQ AMP.	
IC201	NJU7312AL	I. C, INPUT SELECTOR	
IC251	BA6218	I. C, VOLUME MOTOR DRIVE	
IC301	UPC4570C	I. C, TONE AMP.	
IC401	AN7062N	I. C, VOLTAGE AMP.	
IC501	SVI3205B	I. C, POWER AMP.	⚠
IC502	RSN6000A	I. C, V-AMP.	
IC608	M5218AP	I. C, FUN MOTOR DRIVE	(EB, EO)
IC801	M37470M2232S	I. C, MICRO COMPUTER	
IC802	MN1381STA	I. C, RESET	
IC803	TC74HC42AP	I. C, LED DRIVE	
		TRANSISTOR(S)	
Q401, 402	2SA1123RSTTA	TRANSISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR	
Q453, 454	2SC3311A-Q	TRANSISTOR	
Q455, 456	2SA1309A-R	TRANSISTOR	
Q501-503	2SA992EFPTA	TRANSISTOR	
Q601	2SD592ANCQ	TRANSISTOR	(EB, EO)
Q605, 606	2SC3311A-Q	TRANSISTOR	(EB, EO)
Q607	UN4111	TRANSISTOR	(EB, EO)
Q608	UN4211	TRANSISTOR	(EB, EO)
Q610	2SC3311A-Q	TRANSISTOR	
Q611	UN421FTA	TRANSISTOR	
Q701	2SB621A-R	TRANSISTOR	
Q801-804	UN4111	TRANSISTOR	
Q806-809	UN4211	TRANSISTOR	
Q811, 812	UN4211	TRANSISTOR	
Q813, 814	UN4111	TRANSISTOR	
Q815, 816	UN4211	TRANSISTOR	
Q817	2SC3311A-Q	TRANSISTOR	
Q818	2SD2037DEFTA	TRANSISTOR	⚠
Q819-821	UN4211	TRANSISTOR	
Q822, 823	UN4111	TRANSISTOR	
Q824, 825	2SK301QRS	TRANSISTOR	
Q826	2SA933QRSTA	TRANSISTOR	
Q827	2SC3311A-Q	TRANSISTOR	
Q828	UN4111	TRANSISTOR	
		DIODE(S)	
D401, 402	MA167	DIODE	

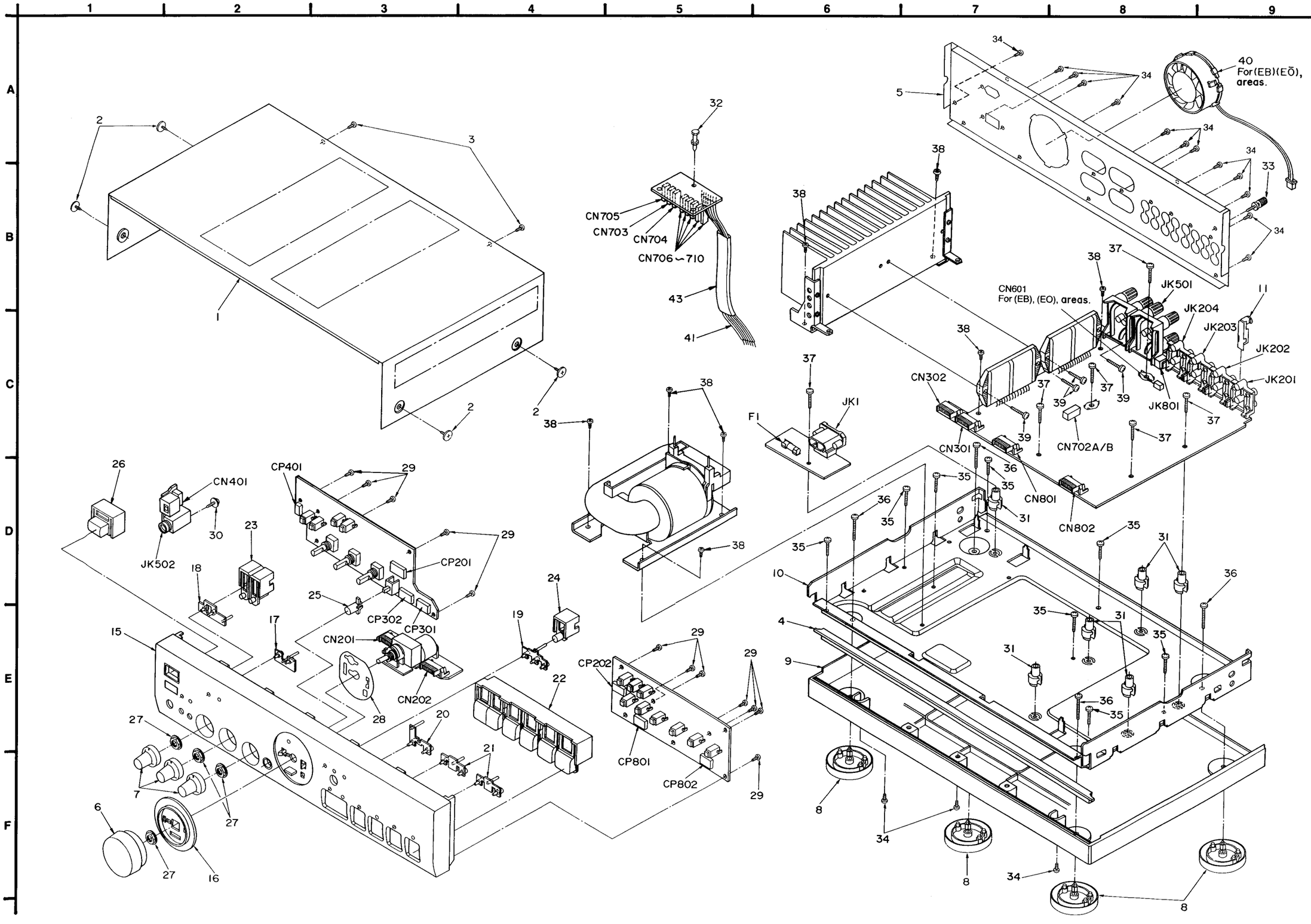
Ref. No.	Part No.	Part Name & Description	Remarks
D403, 404	MA4036MTA	DIODE	
D405, 406	MA165	DIODE	
D451	MA165	DIODE	
D452	MA4056MTA	DIODE	⚠
D453	MA29WA	DIODE	
D501, 502	MA165	DIODE	
D503, 504	MA4160M	DIODE	⚠
D505	MA165	DIODE	
D506	1SS291TA	DIODE	
D602, 603	LN018304P	L. E. D.	
D605	MA4120	DIODE	(EB, EO)
D608	MA165	DIODE	(EB, EO)
D610	MA165	DIODE	(EB, EO)
D611, 612	MA167	DIODE	(EB, EO)
D615	MA4270	DIODE	
D616	MA165	DIODE	
D701-704	P300D5002T	DIODE	⚠
D705	1SR35200TB	DIODE	
D706	MA165	DIODE	
D709	MA165	DIODE	
D710-713	1SR35200TB	DIODE	⚠
D751	MA4160M	DIODE	⚠
D752, 753	MA4082MTA	DIODE	⚠
D801, 802	LN018304P	L. E. D.	
D804-809	LN018304P	L. E. D.	
D812-814	MA165	DIODE	
D815	1SS291TA	DIODE	
D816	MA4068L	DIODE	
D817	MA165	DIODE	
D822, 823	LN014304P	L. E. D.	
D824	LN018304P	L. E. D.	
D825-828	MA165	DIODE	
D829	MA700	DIODE	
D830-832	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR201	RRV16B03B15A	V. R, MAIN VOLUME	
VR202	EVJ02QF04G15	V. R, BALANCE	
VR301	EVJYA1F04C15	V. R, BASS	
VR302	EVJYA1F04C15	V. R, TREBLE	
		THERMISTOR(S)	
TH201, 202	ERTD22HL104T	THERMISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
		COMPONENT COMBINATION (S)	
Z801	RCDHC-237	REMOTE SENSOR	
		COIL (S)	
L1	RLQZ271M	COIL	⚠
L251, 252	ELEXT1R0KA9	COIL	
L501-504	SLQY18G-10	COIL	
L551	ELEPK2R2MA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER (S)	
T1	RTP7K5B005-W	POWER TRANSFORMER	⚠ (EB)
T1	RTP7K5E009-W	POWER TRANSFORMER	⚠ (E, EG, EO)
		OSCILLATOR (S)	
X801	EFOGC4004A4	OSCILLATOR (4MHz)	
		FUSE (S)	
F1	XBA2C20TB0	FUSE, 250V, 2A	⚠
		SWITCH (ES)	
S1	EVQ21405R	SW, POWER	
S204	ESB68046	SW, TONE CONTROL	
S801	EVQ21405R	SW, TAPE MONITOR	
S802	EVQ21405R	SW, TAPE 1	
S803	EVQ21405R	SW, TAPE 2/DCC	
S804	EVQ21405R	SW, AUX	
S805	EVQ21405R	SW, CD	
S806	EVQ21405R	SW, TUNER	
S807	EVQ21405R	SW, PHONO	
S810	EVQ21405R	SW, SPEAKER A	
S811	EVQ21405R	SW, SPEAKER B	
		CONNECTOR (S)	
CN201	RJU003K010M1	SOCKET (10P)	
CN202	RJU003K008M1	SOCKET (8P)	
CN301, 302	RJU003K008M1	SOCKET (8P)	
CN401	RJU057W007	SOCKET (7P)	
CN601	SJT3213	CONNECTOR (2P)	(EB, EO)
CN703-710	RJS1A1101T1	SOCKET (1P)	
CN801, 802	RJU003K008M1	SOCKET (8P)	
CN702A	RJS1A6604	CONNECTOR (4P)	
CN702B	RJS1A6603	CONNECTOR (3P)	
CP201	RJT003K010-1	CONNECTOR (10P)	
CP202	RJT003K008-1	CONNECTOR (8P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CP301, 302	RJT003K008-1	CONNECTOR (8P)	
CP401	RJT057W007-1	CONNECTOR (7P)	
CP801, 802	RJT003K008-1	CONNECTOR (8P)	
		EARTH TERMINAL	
E501	SNE1004-2	GND PLATE	
E701	SNE1004-2	GND PLATE	
		FUSE	
FC1, 2	EYF52BC	FUSE HOLDER	
		RELAY (S)	
RL201-204	RSY0020M-R	RELAY	
RL501, 502	RSY0013M-0	RELAY	⚠
RL503	RSY0020M-R	RELAY	
RL701, 702	RSY0012M-0	RELAY	⚠
		JACK (S)	
JK1	SJS9236	AC INLET	⚠
JK201	SJF3069N	INPUT TERMINAL (PHONO/TUNER)	
JK202	SJF3069N	INPUT TERMINAL (CD/AUX)	
JK203	SJF3069N	IN/OUTPUT TERMINAL	
JK204	SJF3069N	IN/OUTPUT TERMINAL	
JK501	RJH4801M-2	SPEAKERS TERMINAL	(EB)
JK501	RJH4801M-1	SPEAKERS TERMINAL	(E, EG, EO)
JK502	RJJ63TA01	HEADPHONE JACK	
JK801	RJJ33TR01	REMOTE CONTROL JACK	

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0114B-K	CABINET	(EB, EO)
1	RKM0114A-K	CABINET	(E, EG)
2	RHD30035-K1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGK0550-T	ORNAMENT RUBBER	
5	RGR0170A-CB	REAR PANEL	(E, EG)
5	RGR0170H-BB	REAR PANEL	(EO)
5	RGR0170B-BB	REAR PANEL	(EB)
6	RGW0202-K	KNOB, VOLUME	
7	RGW0177A-K	KNOB, TONE	
8	RKA0053-A	FOOT	
9	RKU0049-K	CHASSIS BASE	
10	RMK0202-2	BOTTOM CHASSIS	
11	RSC0105-2	SHIELD PLATE(PHONO)	
15	RFKGA700MKEB	FRONT PANEL ASS'Y	
16	RGK0549-S	ORNAMENT RING	
17	RGL0184-Q1	PANEL LIGHT(A)	
18	RGL0185-Q	PANEL LIGHT(B)	
19	RGL0186-Q	PANEL LIGHT(C)	
20	RGL0187-Q	PANEL LIGHT(D)	
21	RGL0188-Q	PANEL LIGHT(E)	
22	RGU0886A-K	BUTTON, SELECT	
23	RGU0887-K	BUTTON, SPEAKER	
24	RGU0888-K	BUTTON, TAPE MONITOR	
25	RGU0889-K	BUTTON, TONE	
26	RGU1042-K	BUTTON, POWER	
27	RHN90001	NUT	
28	RSC0323	SHIELD PLATE(VOLUME)	
29	XTBS26+8J	SCREW	
30	XTWS3+10T	SCREW	
31	RKQ0089	P. C. B. SUPPORT	
32	SHR8006	SPACER	
33	SNE2123	GND SCREW	
34	XTBS3+8JFZ1	SCREW	
35	XTB3+10G	SCREW	
36	XTB3+16CFN	SCREW	
37	XTB3+20JFZ	SCREW	
38	XTB3+8JFZ	SCREW	
39	XTW3+15T	SCREW	
40	REM0040	FAN MOTOR	(EB, EO)
41	RWJ3907290QQ	FLAT CABLE(7P)	
43	RWZ120UNW240	TUBE	

■ Cabinet Parts Location



Notes : * Capacity values are in microfarads (uF) unless specified otherwise. P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise. 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ224T	1/4W 220K
R109, 110	ERDS2TJ101	1/4W 100
R113, 114	ERDS2TJ563	1/4W 56K
R117, 118	ERDS2TJ271	1/4W 270
R123, 124	ERDS2TJ680T	1/4W 68
R125, 126	ERDS2TJ184T	1/4W 180K
R127, 128	ERDS2TJ123	1/4W 12K
R129, 130	ERDS2TJ563	1/4W 56K
R131, 132	ERDS2TJ102	1/4W 1K
R201-206	ERDAS3G102T	1/4W 1K
R207, 208	ERDS2TJ102	1/4W 1K
R209, 210	ERDAS3G102T	1/4W 1K
R211, 212	ERDS2TJ102	1/4W 1K
R213, 214	ERDAS3G102T	1/4W 1K
R215, 216⚠	ERDLS2VJ332T	1/4W 3.3K
R217, 218	ERDS2TJ334	1/4W 330K
R251 ⚠	ERDS1FVJ100T	1/2W 10
R301, 302	ERDAS3G561	1/4W 560
R303, 304	ERDS2TJ104	1/4W 100K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308 '	ERDS2TJ392T	1/4W 3.9K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ102	1/4W 1K
R313, 314	ERDS2TJ392T	1/4W 3.9K
R315, 316	ERDS2TJ223	1/4W 22K
R317, 318	ERDS2TJ392T	1/4W 3.9K
R319, 320	ERDS2TJ183T	1/4W 18K
R401, 402	ERDAS3G122	1/4W 1.2K
R403, 404	ERDS2TJ154	1/4W 150K
R405, 406	ERDAS3G102T	1/4W 1K
R407, 408	ERDAS3G154T	1/4W 150K
R411, 412⚠	ERDAF2VJ470T	1/4W 47
R437	ERDS2TJ473	1/4W 47K
R457	ERDAS3G153T	1/4W 15K
R459, 460⚠	ERDAF2VJ101T	1/4W 100
R461-464	ERDS2TJ333	1/4W 33K
R465-468⚠	ERDAF2VJ101T	1/4W 100
R469	ERDAS3G103T	1/4W 10K
R470	ERDAS3G102T	1/4W 1K
R471, 472	ERDS2TJ272T	1/4W 2.7K
R501, 502	ERDS2TJ362T	1/4W 3.6K
R503, 504⚠	ERDAF2VJ121T	1/4W 120
R505, 506	ERDS2TJ392T	1/4W 3.9K
R507, 508⚠	ERDAF2VJ121T	1/4W 120
R513-516⚠	ERDAF2VJ100T	1/4W 10

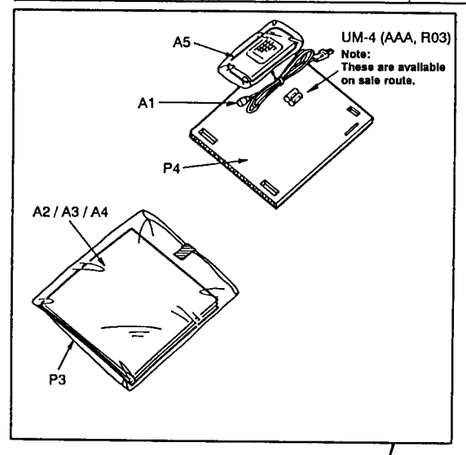
Ref. No.	Part No.	Values & Remarks
R519, 520⚠	ERDS1FVJ6R8T	1/2W 6.8
R521, 522⚠	ERDS1FVJ100T	1/2W 10
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ824	1/4W 820K
R529	ERDS2TJ124T	1/4W 120K
R530 ⚠	ERDS1FVJ272T	1/2W 2.7K
R531, 532⚠	ERDS1FVJ100T	1/2W 10
R533, 534	ERDS2TJ182	1/4W 1.8K
R535	ERDS2TJ562	1/4W 5.6K
R550, 551	ERDS2TJ222	1/4W 2.2K
R555	ERG1SJ681E	1W 680
R556	ERG1SJ561E	1W 560
R557	ERG1SJ681E	1W 680
R558	ERG1SJ561E	1W 560
R559, 560	ERG1SJ102E	1W 1K
R561, 562	ERG1SJ151E	1W 150
R563, 564	ERG1SJ181E	1W 180
R565-570	ERDS2TJ223	1/4W 22K
R604	ERDS2TJ181T	1/4W 180
R611-614	ERDS2TJ223	1/4W 22K (EB, EO)
R615-618	ERDS2TJ103	1/4W 10K (EB, EO)
R619	ERDS2TJ151	1/4W 150 (EB, EO)
R620	ERDS2TJ153	1/4W 15K (EB, EO)
R621, 622	ERDS2TJ223	1/4W 22K (EB, EO)
R624	ERDS2TJ682T	1/4W 6.8K (EB, EO)
R625	ERDS2TJ223	1/4W 22K (EB, EO)
R626	ERDS2TJ103	1/4W 10K (EB, EO)
R650	ERDS2TJ562	1/4W 5.6K
R651	ERDS2TJ472	1/4W 4.7K
R652	ERDS2TJ223	1/4W 22K
R707, 708⚠	ERDAF2VJ6R8T	1/4W 6.8
R709, 710⚠	ERDAF2VJ470T	1/4W 4.7
R711	ERDS2TJ222	1/4W 2.2K
R712 ⚠	ERDS1FVJ2R2T	1/2W 2.2
R713	ERDS2TJ223	1/4W 22K
R714	ERDS2TJ222	1/4W 2.2K
R751, 752⚠	ERDS1FVJ391T	1/2W 390
R753 ⚠	ERDS1FVJ471T	1/2W 470
R754-756⚠	ERDS1FVJ221T	1/2W 220
R757 ⚠	ERDS1FVJ271T	1/2W 270
R801, 802	ERDS2TJ331	1/4W 330
R803	ERDS2TJ390	1/4W 39
R804	ERDS2TJ331	1/4W 330
R810	ERDS2TJ102	1/4W 1K
R811	ERDS2TJ103	1/4W 10K
R812	ERDS2TJ102	1/4W 1K
R813-817	ERDS2TJ103	1/4W 10K
R818	ERDS2TJ821	1/4W 820
R819	ERDS2TJ102	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R820	ERDS2TJ122	1/4W 1.2K
R821	ERDS2TJ152	1/4W 1.5K
R822	ERDS2TJ182	1/4W 1.8K
R823	ERDS2TJ222	1/4W 2.2K
R826, 827	ERDS2TJ103	1/4W 10K
R828, 829	ERDS2TJ102	1/4W 1K
R830	ERDS2TJ223	1/4W 22K
R831	ERDS2TJ104	1/4W 100K
R832	ERDS2TJ331	1/4W 330
R833	ERDS2TJ103	1/4W 10K
R834	ERDS2TJ561	1/4W 560
R835	ERDS2TJ102	1/4W 1K
R837, 838	ERDS2TJ102	1/4W 1K
R839, 840	ERDS2TJ682T	1/4W 6.8K
R843	ERDS2TJ103	1/4W 10K
R845	ERDS2TJ334	1/4W 330K
R852, 853	ERDS2TJ103	1/4W 10K
R854	ERDS2TJ471	1/4W 470
R860-862	ERDS2TJ104	1/4W 100K
R863	ERDS2TJ102	1/4W 1K
R864	ERDS2TJ223	1/4W 22K
		CAPACITORS
C103, 104	ECBT1H181KB5	50V 180P
C107, 108	ECEA1CKA330B	16V 33U
C109, 110	ECBT1H391KB5	50V 390P
C113, 114	ECQB1H223JF3	50V 0.022U
C115, 116	ECQB1H562JF3	50V 5600P
C117, 118	ECEA1HKA010B	50V 1U
C119, 120	ECQB1H472JF3	50V 4700P
C121, 122	ECBT1C103NS5	16V 0.01U
C123, 124	ECEA1HKA3R3B	50V 3.3U
C201-214	ECKT1H101KB	50V 100P
C251, 252	ECEA0JKA101B	6.3V 100U
C253, 254	ECQV1H104JM3	50V 0.1U
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C401, 402	ECEA1HBZ4R7B	50V 4.7U

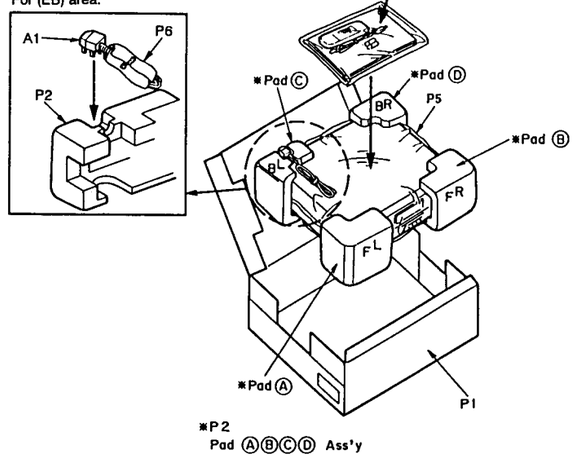
Ref. No.	Part No.	Values & Remarks
C403, 404	ECCR1H271K5	50V 270P
C405, 406	RCE1EAS470B	25V 47U
C407, 408	ECBT1H820KB5	50V 82P
C409, 410	ECCR2H100K5	500V 10P
C413, 414	ECCR2H220J5	500V 22P
C415, 416	ECKR1H331KB5	50V 330P
C426	ECBT1H102KB5	50V 1000P
C427	ECBT1E223ZF	25V 0.022U
C428	ECKR1H103ZF5	50V 0.01U
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	ECEA1HKA3R3B	50V 3.3U
C461, 462	ECKT1H122KB	50V 1200P
C501-504	ECA0JPXS101B	6.3V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA1CKA101B	16V 100U
C508	ECA1HM470B	50V 47U
C509	ECEA1HN100SB	50V 10U
C511, 512	ECBT1H180J5	50V 18P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H393JF3	50V 0.039U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECBT1C152JR5	16V 1500P
C527, 528	ECBT1H101KB5	50V 100P
C531, 532	ECBT1C332KR5	16V 3300P
C602	ECEA1CKA100B	16V 10U (EB, EO)
C604	ECEA1HKA010B	50V 1U (EB, EO)
C605	ECEA0JKA331B	6.3V 330U (EB, EO)
C701, 702⚠	ECES1H822WUE	50V 8200U
C705	ECQV1H104JM3	50V 0.1U
C707, 708	ECA1JPXH560B	63V 56U
C709, 710	ECQE2334KF3	250V 0.33U (E, EG)
C711	ECQE2104KF3	250V 0.1U
C712	ECBT1C103NS5	16V 0.01U
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA2R2B	50V 2.2U
C716 ⚠	ECA1CM102B	16V 1000U
C751, 752	ECA1EPXS470B	25V 47U
C801-803	ECBT1C103NS5	16V 0.01U
C804	ECA0JM102B	6.3V 1000U
C805	ECEA1HKAR47B	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECBT1H102KB5	50V 1000P
C808	ECEA0JKA101B	6.3V 100U
C809	ECBT1C103NS5	16V 0.01U
C810	ECEA1AKA470B	10V 47U
C811	ECBT1H101KB5	50V 100P
C812, 813	ECKR1H1032F5	50V 0.01U
C814, 815	ECA1HPXS4R7B	50V 4.7U
C820	ECQV1H224JM3	50V 0.22U
C821	ECQV1H473JM3	50V 0.047U

■ Packaging

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG2029	PACKING CASE	(EB)
P1	RPG2028	PACKING CASE	(E, EG, EO)
P2	RPND684-1	PAD	
P3	XZB50X65A02Z	PROTECTION COVER	
P4	RPQ0164	ACCESSORY PAD	
P5	XZB24X34C04	PROTECTION COVER	
P6	RPH0032	PROTECTION SHEET	
		ACCESSORIES	
A1	VJA0733	AC POWER SUPPLY CORD	⚠(EB) (SF)
A1	RJA0019-2K	AC POWER SUPPLY CORD	⚠(E, EG, EO) (SF)
A2	RQA0013	WARRANTY CARD	
A3	RQCB0169	SERVICE CENTER LIST	
A4	RFKSA700MKEB	INSTRUCTION MANUAL	(EB)
A4	RFKSA700MK2E	INSTRUCTION MANUAL	(E)
A4	RFKSA700MKEG	INSTRUCTION MANUAL	(EG)
A4	RFKSA700MKEO	INSTRUCTION MANUAL	(EO)
A5	RAK-SU129WH	REMOTE CONTROL TRANSMITTER	
A5-1	RKKD057-K	BATTERY COVER	



For (EB) area.



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